WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES
SEPA ENVIRONMENTAL CHECKLIST

A. BACKGROUND **Application No.**

1. Name of proposed project, if applicable:

English Pit (Bjornsen Property)

2. Name of applicant:

Pacific Rock Products, LLC

3. Address and telephone number of applicant and contact person:

8705 NE 117th Avenue
Vancouver, WA 98662
(360) 254-7770

4. Date checklist prepared:

November 20, 2008

5. Agency requiring checklist:

WA Department of Natural Resources
Division of Geology and Earth Resources
1111 Washington Street SE
Olympia, WA 98504-7007

6. Proposed timing or schedule (including phasing, if applicable):

The site is in the closure process for 2008-2011.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain:

No.

8. **List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.**

H2O Data, Inc. – Hydrogeologic Study (August 30, 1996).
Geo Design, Inc. – Revised Comprehensive Geotechnical Engineering Report, English Pit Reclamation/Closure (November, 2008).
Reclamation Agreement – Between Pac Rock and Landowner November 10, 2008.
Garrison Resource Group, Inc., formerly Ecological Land Services, Inc. – Revised Reclamation/Closure Plan November 20, 2008.

9. **Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain:**

No development permits are pending.

10. **List any government approval or permits that will be needed for your proposal, if known.**

DNR Revised Reclamation/Closure Plan Approval, SM-6 from City of Vancouver.

11. **Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page.**

Pacific Rock Products has entered into a Reclamation Agreement, November 10, 2008, with the landowner addressing the specifics of backfilling and stabilization of the site. The aforementioned agreement is attached to the Revised Reclamation Plan, November 20, 2008. The mine site is 60 acres and has been excavated below ground surface. Mineral extraction is complete and reclamation is in progress. The mine floor varied in elevation roughly between 210 and 220 msl. The postmining topography is being designed to raise the elevation to ~245 msl sloping to elevation ~232 msl through the placement of backfill. Mined slopes cut steeper than 2:1 above the raised mine floor will be backfilled to an average of approximately 1.7:1 to 2:1. This checklist accompanies a Revised Reclamation Plan encompassing the closure of the site. The Reclamation Plan conforms to the Reclamation Agreement between Pac Rock and landowner. The only change from the existing plan is the floor elevation. There is no change to slopes or pit dimensions.

12. **Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township and range, if known. If a proposal would occur over a large area, provide the boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any**

plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

English Pit is located in the City of Vancouver, Washington, off SE First Street, Clark County, Washington. The site is located in the NE¼ SW¼ of Section 30 Township 2 North, Range 3 East, Willamette Meridian. The property boundary is inclusive of parcels 176376000, 176416000, 176417000, 176424000, 17638000, and 176387000.

TO BE COMPLETED BY APPLICANT | **EVALUATION FOR AGENCY USE ONLY**

B. ENVIRONMENTAL ELEMENTS

1. Earth

a) General description of the site (circle one): Flat, rolling, hilly, steep slopes, mountainous, other.

The pit is located in an area of predominately flat natural topography. Excavation has produced a pit whose floor is 210.9 msl at the deepest point.

b) What is the measurement of the steepest slope on the site (approximate percent slope)?

The steepest slope is 1.7:1.

c) What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farm land.

Native soils have been historically stripped in the excavation process. Less than 18,000 cubic yards of topsoil were previously stockpiled in the northwest corner of the site. Original soils were Lauren gravelly loam, 0 to 8 percent slopes.

d) Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No.

e) **Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.**

The purpose for filling and grading is to construct final slopes, backfill and stabilize the mine floor for subsequent use. Backfill used to raise the pit floor is clean, inert, imported material and some native material from on site. A total of 1.7 million cubic yards of fill will have been placed at the completion of the reclaimed surface. As specified in the Reclamation Agreement some pre-loading will be required.

f) **Could erosion occur as a result of clearing, construction, or use? If so, generally describe.**

Erosion of the pit slopes could occur before the replaced topsoil is vegetated. Any eroded sediment cannot leave the site.

g) **About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?**

0% at closure of reclamation.

h) **Proposed measures to reduce or control erosion, or other impacts to the earth, if any:**

Mine plan has been designed to contain all stormwater and potential sediment on-site.

2. **Air**

a) **What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.**

Short-term emissions can be expected from operating equipment such as dozers, loaders, and haul trucks -- all of which will have emission control devices installed as required by state and city regulations.

b) **Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.**

No.

c) **Proposed measures to reduce or control emissions or other impacts to air, if any:**

Equipment will be maintained for efficient operation and fitted with emission control devices as required.

3. **Water**

a) **<u>Surface</u>:**

1) **Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, salt water, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.**

No.

2) **Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.**

No.

3) **Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands. Indicate the area of the site which would be affected. Indicate the source of fill material.**

None.

4) **Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.**

No.

5) **Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.**

No.

6) **Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.**

No.

b) **Ground:**

1) **Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.**

No groundwater will be withdrawn. Two infiltration areas are proposed for final reclamation topography. There will be one in the northwest and one in the southwest corners. The northwest portion of the property has historically been used as an infiltration area. Drainage is consistent with the approved 1998 reclamation plan and no change in result will occur in response to the change in floor elevation.

2) **Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: domestic sewage; industrial, containing the following chemicals...; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.**

None.

c) **Water Runoff (including storm water):**

1) **Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.**

There is no runoff associated with this site other than seasonal runoff from precipitation falling within site boundaries. No runoff from current site conditions is leaving the site. Two infiltration areas are proposed for stormwater collection at the completion of mining.

2) **Could waste materials enter ground or surface waters? If so, generally describe.**

Accidental fuel or oil spills are possible. A spill prevention, containment and countermeasures plan utilizing Department of Ecology best management practices is being followed during operations, which should prevent any potential spills from reaching groundwater.

d) **Proposed measures to reduce or control surface, ground and run-off water impacts, if any:**

The mining plan will comply with all applicable requirements and appropriate best management practices of the State Water Quality Program's Sand and Gravel General Permit # WAG 50-1191.

4. **Plants**

a) **List types of vegetation found on the site**

deciduous trees:

evergreen trees:

shrubs:

grass: *various species*

pasture:

crop or grain:

wet soil plants:

water plants: water lily, eelgrass, milfoil, other:

other types of vegetation:

b) **What kind and amount of vegetation will be removed or altered?**

The site's original vegetation has been removed.

c) **List threatened or endangered species known to be on or near the site.**

None known.

d) **Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:**

Subsequent use precludes need for landscaping – final slopes have been seeded to control erosion. Refer to reclamation plan for detail.

5. **Animals**

a) **List any birds and animals which have been observed on or near the site, or are known to be on or near the site:**

birds: *various song birds, crows, jays, gulls, and killdeer*

mammals: *none observed*

fish: *none*

b) **List any threatened or endangered species know to be on or near the site.**

None known.

c) **Is the site part of a migration route? If so, explain.**

Pacific Flyway.

d) **Proposed measures to preserve or enhance wildlife, if any:**

None. Subsequent use precludes the need for wildlife enhancement.

6. Energy and Natural Resources

a) What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

None.

b) Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c) What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

None.

7. Environmental Health

a) Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe:

Accidental fuel or oil spills are possible, but a spill prevention and countermeasure control plan is kept on site and will be followed throughout the remainder of the project.

1) Describe special emergency services that might be required.

The site is within 1/2 mile of an emergency services facility.

2) Proposed measures to reduce or control environmental health hazards, if any:

Best management practices will be employed on site to reduce the potential for accidental fuel or oil spills from occurring during equipment refueling. BMPs will also be used to quickly and completely clean up any spills consistent with the spill prevention countermeasure and control plan and remove any spill-contaminated materials to an approved disposal site.

b) <u>Noise</u>

1) What types and levels of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

None.

2) **What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.**

Short-term noise generation by heavy equipment operation during work hours as has occurred throughout the life of the mine and the neighboring mines and processing facilities.

3) **Proposed measures to reduce or control noise impacts if any:**

Equipment operates within WAC EDNA limits for noise. The depth of the pit screens noise from operations from higher surrounding areas.

8. Land and Shoreline Use

a) **What is the current use of the site and adjacent properties?**

The English Pit lies within an area zoned business park and mixed use by City of Vancouver and has been used for mineral extraction and processing until the resource was recently exhausted. The site is currently undergoing reclamation. Land use surrounding the site is a mix of residential, industrial, and commercial. These uses include single family homes, other surface mines, and mine facilities.

b) **Has the site been used for agriculture? If so, describe:**

No.

c) **Describe any structures on the site.**

None.

d) **Will any structures be demolished? If so, what?**

N/A

e) What is the current zoning classification of the site?

Business park and mixed use with "mining combining district" and "urban holding – 20" overlays.

f) What is the current comprehensive plan designation of the site?

Business park and mixed use/commercial.

g) If applicable, what is the current shoreline master program designation of the site?

N/A

h) Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

No.

i) Approximately how many people would reside or work in the completed project?

None.

j) Approximately how many people would the completed project displace?

0

k) Proposed measures to avoid or reduce displacement impacts, if any:

N/A

l) **Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:**

The reclaimed site will be suitable for business park and mixed use uses as well as interim overlay uses with standard IBC chapter 18 construction techniques for filled sites – similar to techniques used over fill in the Columbia Tech Center Development on the former MUSA mine site to the south.

9. **Housing**

a) **Approximately how many units would be provided, if any? Indicate whether high-, middle-, or low-income housing.**

N/A

b) **Approximately how many units would be eliminated, if any? Indicate whether high-, middle-, or low- income housing.**

N/A

c) **Proposed measures to reduce or control housing impacts, if any:**

N/A

10. **Aesthetics**

a) **What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?**

N/A

b) **What views in the immediate vicinity would be altered or obstructed?**

None.

c) **Proposed measures to reduce or control aesthetic impacts, if any:**

None.

11. Light and Glare

a) **What type of light or glare will the proposal produce? What time of day would it mainly occur?**

None.

b) **Could light or glare from the finished project be a safety hazard or interfere with views?**

No.

c) **What existing off-site sources of light or glare may affect your proposal?**

None.

d) **Proposed measures to reduce or control light and glare impacts, if any:**

N/A

12. Recreation

a) **What designated and informal recreational opportunities are in the immediate vicinity?**

A county park is located approximately 2,000 feet northeast of the site in Section 30 adjacent to another mine site.

b) **Would the proposed project displace any existing recreational uses? If so, describe.**

No.

c) **Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:**

N/A

13. **Historical and Cultural Preservation**

a) **Are there any places or objects listed on, or proposed for, national, state or local preservation registers known to be on or next to the site? If so, generally describe.**

None known.

b) **Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.**

N/A

c) **Proposed measures to reduce or control impacts, if any:**

N/A

14. **Transportation**

a) **Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on-site plans, if any.**

Access is from SE First Street. Refer to site map.

b) Is site currently served by public transit?

No.

If not, what is the approximate distance to the nearest transit stop?

N/A

c) How many parking spaces would the completed project have? How many would the project eliminate?

N/A

d) Will the proposal require any new roads or streets or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

No.

e) Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

N/A

f) How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

None.

g) Proposed measures to reduce or control transportation impacts, if any:

None required.

15. Public Services

a) Would the project result in an increased need for public services (for example: fire protection, police

protection, health care, schools, other)? If so, generally describe.

No.

b) **Proposed measures to reduce or control direct impacts on public services, if any.**

N/A

16. **Utilities**

a) **Circle utilities currently available at the site:**

Electricity, phone, and gas available at First Street.

b) **Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.**

None.

SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: _____

Date submitted: 12/15/08